



# SEQUENCE LISTING

<110> Advisys, Inc.

<120> Codon optimized Synthetic Plasmid

<130> 108328.00146

<160> 21

<170> PatentIn version 3.1

<210> 1

<211> 3534

<212> DNA

<213> artificial sequence

<220>

<223> Plasmid vector having an analog GHRH sequence.

<400> 1

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<210> 2

<211> 2739

<212> DNA

<213> artificial sequence

<220>

<223> Plasmid vector having an analog GHRH sequence.

<400> 2

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<210> 3

<211> 795

<212> DNA

<213> artificial sequence

<220>

<223> Coding sequence having an antibiotic resistance gene Kanamycin.

<400> 3

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gacgagttct tctga 795

<210> 4  
<211> 219  
<212> DNA  
<213> artificial sequence

<220>  
<223> Sequence for an analog porcine GHRH sequence.

<400> 4  
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taccggaagg tgctggccca gctgtccgcc cgcaagctgc tccaggacat cctgaacagg 180  
cagcagggag agaggaacca agagcaagga gcataatga 219

<210> 5  
<211> 246  
<212> DNA  
<213> artificial sequence

<220>  
<223> Sequence for an analog mouse GHRH sequence.

<400> 5  
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tacaggaagc tgctgagcca gctgtacgcc aggaaggtga tccaggacat catgaacaag 180  
cagggcgaga ggatccagga gcagagggcc aggctgagct gataagcttg cgatgagttc 240  
ttctaa 246

<210> 6  
<211> 234  
<212> DNA  
<213> artificial sequence

<220>  
<223> Sequence for an analog porcine GHRH sequence.

<400> 6  
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tacaggagga tcctgggcca gctgtacgct aggaagctcc tgcacgagat catgaacagg 180  
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<210> 7  
<211> 225  
<212> DNA  
<213> artificial sequence

<220>  
<223> Sequence for an analog bovine GHRH sequence.

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cagcagggcg agcgcaacca ggagcaggga gcctgataag cttgc 225

<210> 8  
<211> 225  
<212> DNA  
<213> artificial sequence

<220>  
<223> Sequence for an analog ovine GHRH sequence.

<400> 8  
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cagcagggcg agaggaacca ggagcagggc gcctgataag cttgc 225

<210> 9  
<211> 246  
<212> DNA  
<213> artificial sequence

<220>  
<223> Sequence for an analog chicken GHRH sequence.

<400> 9  
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ttctaa 246

<210> 10  
<211> 190  
<212> DNA  
<213> artificial sequence

<220>  
<223> Nucleic acid sequence of human growth hormone poly A tail.

<400> 10  
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acctgtaggg 190

<210> 11  
<211> 55  
<212> DNA  
<213> artificial sequence

<220>  
<223> Nucleic acid sequence of human growth hormone 5' untranslated region

<400> 11  
caaggcccaa ctccccgaac cactcagggt cctgtggaca gtcacctag ctgcc 55

<210> 12  
<211> 782  
<212> DNA  
<213> artificial sequence

<220>  
<223> Nucleic acid sequence of a plasmid pUC-18 origin of replication

<400> 12  
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<210> 13  
 <211> 5  
 <212> DNA  
 <213> artificial sequence

<220>  
 <223> This is a NEO ribosomal binding site

<400> 13	
tcctc	5

<210> 14  
 <211> 29  
 <212> DNA  
 <213> artificial sequence

<220>  
 <223> Nucleic acid sequence of a prokaryotic PNEO promoter.

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<210> 15  
 <211> 323  
 <212> DNA  
 <213> artificial sequence

<220>  
 <223> Nucleic acid sequence of a eukaryotic promoter c5-12.

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gtggggagtt attttttagag cggtgaggaa ggtgggcagg cagcaggtgt tggcgctcta	120
aaaataactc ccgggagtta ttttttagagc ggaggaatgg tggacaccca aatatggcga	180
cggttcctca cccgtcgcca tatttgggtg tccgccctcg gccggggccg cattcctggg	240
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gctacccgga ggagcgggag gcg	323

<210> 16  
 <211> 210  
 <212> DNA  
 <213> artificial sequence

<220>  
 <223> Optimized nucleic acid sequence of a human growth hormone poly A tail

<400> 16	
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<210> 17  
 <211> 2722  
 <212> DNA  
 <213> artificial sequence

<220>  
 <223> Plasmid vector having a codon optimized mouse GHRH sequence

<400> 17	
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gttggcgctc taaaaataac tcccgggagt tatttttaga gcggaggaat ggtggacacc	180
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<210> 18  
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 <212> DNA  
 <213> artificial sequence

<220>  
 <223> Plasmid vector having a codon optimized rat GHRH sequence

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<210> 19

<211> 2716

<212> DNA

<213> artificial sequence

<220>

<223> Plasmid vector having a codon optimized bovine GHRH sequence

<400> 19

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<210> 20  
 <211> 2716  
 <212> DNA  
 <213> artificial sequence

<220>  
 <223> Plasmid vector having a codon optimized ovine GHRH sequence

<400> 20	
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<211> 2725  
<212> DNA  
<213> artificial sequence

<220>

<223> Plasmid vector having a codon optimized chicken GHRH sequence

<400> 21

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